EXHIBIT BU

Sonos's Claim Chart U.S. Patent No. 9,654,459

Claim: 1	Google Chromecast-Enabled Audio Players
A playback device	Google's line of Chromecast-enabled audio players includes, inter alia, the Google Home Mini, the
comprising:	Google Home, the Google Home Max, the Google Home Hub, and the Chromecast dongles, and these
	Chromecast-enabled audio players are controlled by smartphones, tablets, and computers installed
	with the Google Home app, the Google Play Music app, and/or other Chromecast-enabled apps
	(where a computing device installed with at least one of these apps is referred to herein as a
	"Chromecast-enabled computing device"). Each of the foregoing Chromecast-enabled audio players
	comprises a "playback device" as recited in claim 1, and Google's Cloud Platform comprises a
	"remote server" as recited in claim 1. See, e.g., https://developers.google.com/cast/docs/caf receiver/;
	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase.
a network interface;	Each of the foregoing Chromecast-enabled audio players includes a network interface configured to
	interface the Chromecast-enabled audio player with data network, such as a WiFi interface. See, e.g.,
	<pre>https://store.google.com/us/category/connected_home?hl=en-US;</pre>
	https://support.google.com/googlehome/answer/7072284?hl=en;
	https://www.ifixit.com/Teardown/Google+Home+Teardown/72684.
at least one processor;	Each of the foregoing Chromecast-enabled audio players includes at least one processor. See, e.g.,
	https://store.google.com/us/category/connected_home?hl=en-US;
	https://support.google.com/googlehome/answer/7072284?hl=en;
	https://www.ifixit.com/Teardown/Google+Home+Teardown/72684.
a data storage; and	Each of the foregoing Chromecast-enabled audio players includes a data storage comprising program
a program logic stored in	logic that is executable by the at least one processor and enables the Chromecast-enabled audio
the data storage and	players to perform the functions identified below. See, e.g.,
executable by the at least	<pre>https://store.google.com/us/category/connected_home?hl=en-US;</pre>
one processor to:	https://support.google.com/googlehome/answer/7072284?hl=en;
	https://www.ifixit.com/Teardown/Google+Home+Teardown/72684.
while playing back a	Each of the foregoing Chromecast-enabled audio players includes program logic stored in the data
particular media item from	storage and executable by the at least one processor to cause the Chromecast-enabled audio player to,
a local queue of media	while playing back a particular media item from a local queue of media items, send, to Google's
items, send, to a remote	Cloud Platform, (i) a request for an indication of media items from a cloud queue of media items that
server over the network	is accessible to the Chromecast-enabled audio player via a wide area network, and (ii) an indication of
interface, (i) a request for	the particular media item that is being played by the Chromecast-enabled audio player, where the
an indication of media	local queue is stored in data storage of the Chromecast-enabled audio player.
items from a cloud queue	

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of media items that is	For instance, each of the foregoing Chromecast-enabled audio players is programmed such that, while
accessible to the playback	playing an audio track from a local queue of the player that is associated with a cloud queue, the
device via a wide area	Chromecast-enabled audio player is capable of sending to Google's Cloud Platform (i) a request for
network, and (ii) an	an indication of audio tracks identified in the cloud queue (e.g., audio tracks that have not been loaded
indication of the particular	into the local queue) and (ii) an indication of the audio track currently being played back by the
media item that is being	Chromecast-enabled audio player. See, e.g., https://developers.google.com/cast/docs/caf_receiver/ ;
played by the playback	https://developers.google.com/cast/docs/caf_receiver/queuing;
device, wherein the local	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase;
queue is stored in data	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueManager;
storage of the playback	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueItem;
device;	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
	RequestData.
receive, over the network	Each of the foregoing Chromecast-enabled audio players includes program logic stored in the data
interface, an indication of	storage and executable by the at least one processor to cause the Chromecast-enabled audio player to
two or more media items	receive an indication of two or more media items from a cloud queue, where the two or more media
from the cloud queue of	items include the particular media item that is being played by the Chromecast-enabled audio player.
media items, wherein the	
two or more media items	For instance, each of the foregoing Chromecast-enabled audio players is programmed such that, while
include the particular	playing an audio track from a local queue of the player that is associated with a cloud queue, the
media item that is being	Chromecast-enabled audio player is capable of receiving an indication of a window of audio tracks
played by the playback	from the cloud queue that includes the audio track currently being played back by the Chromecast-
device; and	enabled audio player. See, e.g., https://developers.google.com/cast/docs/caf_receiver/;
	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.QueueBase;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueManager;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueItem;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
	RequestData.
incorporate an indication of	Each of the foregoing Chromecast-enabled audio players includes program logic stored in the data
at least one of the two or	storage and executable by the at least one processor to cause the Chromecast-enabled audio player to
more media items into the	incorporate an indication of at least one of the two or more media items into the local queue of media
local queue of media	items.
items.	

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For instance, each of the foregoing Chromecast-enabled audio players is programmed such that, in response to receiving an indication of a window of audio tracks from a cloud queue with which a local queue of the player is associated, the Chromecast-enabled audio player updates the local queue to
incorporate at least one of the indicated audio tracks. See, e.g.,
https://developers.google.com/cast/docs/caf_receiver/;
https://developers.google.com/cast/docs/caf_receiver/queuing;
https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.QueueBase;
https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.QueueManager;
https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.messages.QueueItem;
https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.messages.QueueData;
https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
RequestData.